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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|---|-----------------------------------|----------------------|---------------------|-----------------|
| 10/518,644 | 12/20/2004 | Shojiro Komatsu | 043058 | 2836 |
| 38834 7590 08/07/2007 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW | | | EXAMINER | |
| | | | LANGEL, WAYNE A | |
| SUITE 700 | SUITE 700 WASHINGTON, DC 20036 | | ART UNIT | PAPER NUMBER |
| WASHINGTO | /11, DC 20030 | | 1754 | |
| | | | | |
| • | | | MAIL DATE | DELIVERY MODE |
| | | | 08/07/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application No. | Applicant(s) | | | |
|--|--|--|--|--|--|--|
| | | 10/518,644 | KOMATSU ET AL. | | | |
| Office Action Summary | | Examiner | Art Unit | | | |
| | | Wayne Langel | 1754 | | | |
| | The MAILING DATE of this communication app | pears on the cover sheet w | th the correspondence address | | | |
| Period fo | · · · · · · · · · · · · · · · · · · · | | | | | |
| WHIC - Exte after - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D ensions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin led patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNIO 36(a). In no event, however, may a r will apply and will expire SIX (6) MON a, cause the application to become AB | CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)[| Responsive to communication(s) filed on | · • | | | | |
| 2a) <u></u> ☐ | This action is FINAL . 2b)⊠ This action is non-final. | | | | | |
| 3)□ | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the me | | | | | |
| | closed in accordance with the practice under the | Ex parte Quayle, 1935 C.D | . 11, 453 O.G. 213. | | | |
| Disposit | ion of Claims | | | | | |
| 4)⊠ | Claim(s) 1-12 is/are pending in the application | • | | | | |
| • / ೭3 | 4a) Of the above claim(s) is/are withdra | | | | | |
| 5)[| Claim(s) is/are allowed. | • | | | | |
| 6)⊠ | Claim(s) 1-12 is/are rejected. | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | |
| 8)□ | Claim(s) are subject to restriction and/o | r election requirement. | | | | |
| Applicat | ion Papers | | | | | |
| 9) | The specification is objected to by the Examine | er. | · | | | |
| ,— | The drawing(s) filed on is/are: a) acc | | by the Examiner. | | | |
| | Applicant may not request that any objection to the | drawing(s) be held in abeyar | ice. See 37 CFR 1.85(a). | | | |
| | Replacement drawing sheet(s) including the correct | tion is required if the drawing | (s) is objected to. See 37 CFR 1.121(d). | | | |
| 11) | The oath or declaration is objected to by the Ex | kaminer. Note the attached | d Office Action or form PTO-152. | | | |
| Priority (| under 35 U.S.C. § 119 | | : | | | |
| - | Acknowledgment is made of a claim for foreign | nriority under 35 U.S.C. 8 | 5 119(a)-(d) or (f). | | | |
| | ☐ All b)☐ Some * c)☐ None of: | priority and or or o.o.o. | , 10(2) (2) (1). | | | |
| , | 1. Certified copies of the priority document | s have been received. | | | | |
| | 2. Certified copies of the priority document | | pplication No | | | |
| | 3. Copies of the certified copies of the prior | rity documents have been | received in this National Stage | | | |
| | application from the International Burea | u (PCT Rule 17.2(a)). | | | | |
| * (| See the attached detailed Office action for a list | of the certified copies not | received. | | | |
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| | · | | | | | |
| Attachmer | | . — | | | | |
| | ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) | | Summary (PTO-413) s)/Mail Date | | | |
| 3) X Infor | mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>12-20-04</u> . | | nformal Patent Application | | | |

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Allred et al or JP 10-7409 or the article by Komatsu et al. No distinction is seen between the BN and methods disclosed by Allred et al or JP 10-7409 or the article by Komatsu et al (Journal of Physical Chemistry), and that recited in applicants' claims. Regarding Allred et al, The BN would inherently have the properties as recited in applicants' claims, since the BN is prepared by substantially the same method as recited in applicants' claims. (See col. 4, line 26 to col. 6, line 9 of Allred et al; the English Abstract of JP 10-7409; and the entire document for the Komatsu et al article.)

Claims 9-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 9-12 provide for the use of BN, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it

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merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 9-12 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Komatsu et al '533 and Doll et al are made of record for disclosing methods for forming BN.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wayne Langel Primary Examiner Art Unit 1754